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Survey, War Department and State Experiment Stations. This work is other ise conducted cooperatively with the State Engineers of Wyoming and Colorado, and various municipalities, irrigation associations, power companies and others. Precipitation records are supplied by the U. S. Weather Bureau. The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by Bureau of Agricultural Engineering of the U. S. Department of Agriculture, in cooperation with State departments, of the following organizations: Forest Service, National Park Service, Bureau of Reclamation, U. S. Geofogical other Federal bureaus and local organizations. The snow measurements are made principally by field personnel

was 8.7 inches or 0.8 inch above normal. On the watershed of the South Platte, in Colorado six stations averaged inch above normal. The accumulated average precipitation, October to April, inclusive for this area in Wyoming The average precipitation for April as shown by seven stations 6,000 feet or more in elevation on the watershed Precipitation during April on the watershed of the Missouri and its tributaries in eastern Montana Wass spercent of normal. In the central part of the state it was 69 percent of normal. The accumulated average precipitation from October to April, inclusive, for the eastern division was 95 manner. 6,000 feet in elevation over this area, October to April inclusive, was 8.5 inches or 1.4 inches above normal. of the Arkansas River, was 2.4 inches or 0.7 inch above normal. The average accumulated precipitation for the period, October to April inclusive, for these same stations was 7.9 inches which was 0.6 inch above normal. central division it was 89 percent of normal. On the east slope of the Rocky Mountains, in Wyoming, the April precipitation was 2.3 inches as an average for thirteen stations above 6,000 feet in elevation which was 0.4 2.9 inches which was 0.5 inch above normal. The accumulated average precipitation for five stations, above

mately 6 percent greater than for May 1, 1937. Storage in the Shoshone Reservoir on the Bighorn River watershed is about 7 percent less than last year at this time and in Jackson Lake on the Snake River May 1st, there Storage in Pathfinder and Guernsey reservoirs on the North Platte River watershed in Wyoming was approxithe irrigation reservoirs in the Arkansas Volley. In the mountain sections of the Arkansas River watershed, reservoirs was 20 percent less on May 1st than last year at the same time. For six large reservoirs in the lower Platte valley the filling was 25 percent less than last year while for six reservoirs in the Cache la Poudre valley the storage was the same as last year on May 1. There is practically no water in storage in mas 15 percent less than a year ago. For the South Platte watershed in Colorado the storage in twenty two storage is about one-half that of last year.

evaporation from the soil as well as from the snow cover. In local areas east of the Bighorn Mountains, soil moisture is reported as favorable, while for stock water ponds the supply is said to be deficient in places reported as poor. In the South Platte Valley in Colorado the soil moisture over the agricultural area is Wyoming are good. The soil in the mountains is saturated and cool, cloudy weather has prevented loss by Soil moisture conditions in the agricultural areas of the North Platte and Laramie river basins in over this area. Soil moisture conditions over the agricultural area served by the Shoshone Reservoir is

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good to excellent. In the Arkansas Valley, east of Pueblo, the soil moisture is poor to fair while for the Trinidad area it is said to be the best in ten years. The average water content of the snow on the watersheds of the Yellowstone, Jefferson, Madison and Gallatin show 23 percent less water content than on May 1, 1937. On the Shoshone, Bighorn, Tongue and Powder Rivers, the show the water content to be 5 percent less on May I than last year at this time. Seven courses on the Missouri average water content for fourteen snow courses was 6.8 inches which is 15 percent less than that of a year ago. Rivers on May 1 for twenty courses was 6.8 inches. Comparisons are available on sixteen of these courses which year on May 1. On the Jefferson River watershed, six courses show an average of 10 percent less water content than last year. Three courses on the Madison River show 9 percent more and six courses on the Gallatin River River between Helena and Great Falls show an average water content of 4.8 inches or 29 percent less than last

of these stations observed May 1, 1937 indicates a 72 percent greater water content this year. On the Cache la Poudre River, a tributary of the South Platte, the average of seven courses show a water content of 16.1 inches. percent greater water content this year. Eight courses on the Laranie watershed show an average water content On the South Platte River seventeen courses show an average water content of 13.5 inches. Comparison with ten courses was 19,6 inches. The average of nine courses reported in 1937 and 1938 indicate that there is about 3 of 11.8 inches. Comparisons of six of these courses, May I record, indicate 19 percent more water this year. On the watershed of the North Platte proper, the average water centent of the snow on May 1 for eleven than a year ago. On the Arkansas River watershed the average water content for nine courses was 10.1 inches. Four of these courses were observed May 1, 1937 and comparisons indicate a 62 percent greater water content Comparisons with eight of these courses observed in 1.937 indicate twice as much water for 1938.

in Wyoming, the water content of the snow increased 2.0 inches during the month. At Fox Park, on the Laramie, there was an increase of 1.5 inches. At the headwaters of Clear Creek, tributary to the South Platte, in Colorado, there was an increase of 5.4 inches. On Cameron Pass, headwaters of both the North Platte and Cache la Poudre, there was an increase of 4.9 inches. On the upper North Poudre drainage the increase was about 4 During April the snowfall in the mountain areas of the North Platte, Laramie, South Platte and Arkansas River basins was good. On North French Creek, a tributary to the North Platte, west side of the Snowy Range, These measurements refer to snow inches. At Blue Lakes, on a tributary to the Arkansas, the increase was nearly 2 inches. At Fremont Pass, headwaters of the Arkansas River, the increase was 2.4 inches. At Brooks Lake, in Wyoming, on the Bighorn courses at elevations of 10,000 feet or more except Fox Park and Brooks Lake, which are 9,200. drainage the increase in the water content over the month was 2.9 inches.

The snow cover resulting from the heavy April storms over the high areas will sustain the runoff and result in an improved late water supply for irrigation.

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MISSOURI AND ARKANSAS

200 200 16.0 Av. Snow Depth Av. Water Conten Snow Course Measurements 1937 6.8 0.0 20.7 Federal and State Cooperative Snow Surveys sering, U. S. Dept. Agr.; Forest Sergice; Colo. Agri. Expt. Station 1938, Colo. Expt. Station, Fort Collins, Colo. 800 1936 17.6 25.2 16.9 1938 In. 29.1 17.0 27.7 13.6 In. 26.50 10.0 27.0 1936 1937 16.2 In. 10.01 38.0 Bitterroot Deer Lodge Deer Lodge BeaverHead Bitterroot Jallatin Elev. National Targhee Salmon Forest 6550 6200 6200 6200 6200 7200 21-13N-36E 16-2N-17W 15-48-12W 4-28-19W 27-27N-21E 22-118-3国 Description 15mi.W.Anaconda Pipestone Pass 3mi.S.Gibbons 6mi.N.Spencer 13mi.NE.Sula Smi.N.Polaris Gibbons Pass Location Hebgen Dam Locality Agricultural Engineering, Issued May 10, 1938, State Idaho Mont. Idaho Mont. Mont. font N.FK.Big Hole N.Fk.Big Hole Pipestone Cr. Cr. Seymour Cr. Wise River Cabin Cr. Red Rock Rock Cr. Rock Drainage Local Bureau of Elkhorn Hot Spgs East Fork R.S.\* Gibbons Pass Moose Creek\* Pipestone Pass JEFFERSON RIVER Main Drainage MADISON RIVER Snow Course Camp Creek\* Storm Lake\* Hebgen Dam

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### MISSOURI AND ARKANSAS RIVERS

Summary of Federal and State Cooperative Snow Surveys
Bureau of Agricultural Engineering, U. S. Dept. Agr.; Forest Service; Colo. Agri. Expt. Station Fort Collins. Colo.

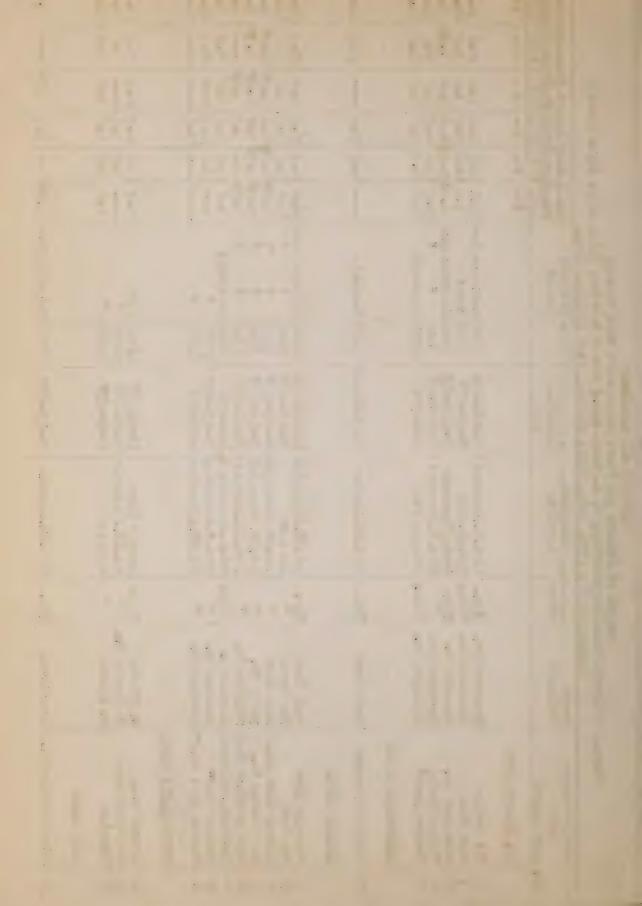
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Fort Collins, Colo.		Forest		Washakie O Shoshone O Yel.Nat.P.		Washaki Bighorn			O Bighorn O Shoshone		7700 Bighorn		O Off Forest O Bighorn		Acutt O Medicine Bow C Medicine Bow Medicine Bow O Medicine Bow
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Colo. Expt. Station,		Descrip- tion		23-44m-110W 25-51N-106W 12-52N-110W		22-53N-88W	19-53N-88W	3-42N-109W	30-49N-86W 21-46N-103W		4-53N-86W		18-43N-85W		9-11M-82W 24-141-85W 21-5M-82W 27-16M-80W 27-16M-80W 30-16M-80W
1938. Colo. Expt	Location	Locality		Brooks Lake 27mi.SW.Cody Sylvan Pass		Brooks Lake 14mi.E.Shell	13mi.E.Shell	16mi.M.Dubois 16mi.SW.Lander	15mi.NE.Tensleep 11mi.SW.Sunshine		20mi.SW.Sheridan		23mi.W.Kaycee 10mi.W.Klondike		5mi.SW.Pearl 7mi.SW.Encmpunt Rbt.Ears Pass Cent/Saratoga
May ID.		State		ayo. ==		===	=	= =	= =		=		==		Golo. Golo. Wyo.
Issued May 10.	Local	Drainage		Shoshone R. Hardpan Cr. Middle Cr.		Wind River Ranger Cr.	Roaring Fr.	Sheridan Cr. Roaring Fk.			E. Goose Cr.		Middle Fk. Sour Dough Cr.		Big Creek Encapant Cr. Grizzly Cr. N. French Cr. N. French Cr.
	Main Drainage	and Snow Course	1	Brooks Lake No. 2*Shoshone R. Up. Hardpan Basin Hardpan Cr. Sylvan Pass Middle Cr.	BIGHORN RIVER	No.2	Shell Creek R.S.		nch	TONGUE RIVER	Big Goose Cr.R.S. E.Goose Cr.	POWDER RIVER	Red Fork Sour Dough	NO. PLATTE RIVER	Big Creek Lake Bottle Creek Columbine Lodge Headquarters Park North French Gre
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## MISSOURI AND ARKANSAS

Summary of Federal and State Cooperative Snow Surveys
Bureau of Agricultural Engineering, U. S. Dept. Agr.; Forest Service; Colo. Agri. Expt. Station

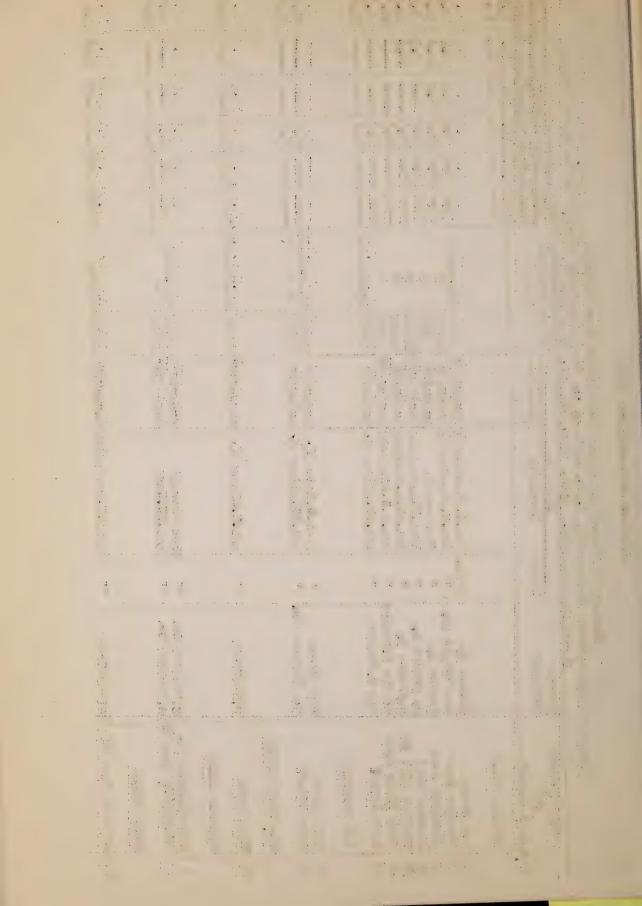
		Issued 1	May 10.	1938. Colo. Expt.	Station,	Fort Collins,	Ins. Colo.	0	o day	1	100		
	Main Drainage			Location		Elev. Nat		May 1	Snow	Course	se Mea	Measurements	nts
		Drainage	State	Locality	Descrip-	For	Forest		low De	epth A	Iv. Wat	Snow Depth Av. Water Content	tent
NO	Snow Course				tion			1936 1937 1938 1936 1937	937	1938 1	.936	-	1938
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7	Park View		Colo	7mi.SE.Rand	24-5N-78W	9200 Routt	Ine bow	7.00	1000 1000	20.00			32.5
39	Ryan Park No. 2	Barrett Cr.	Wyo.	Cent./Saratoga	34-161-81W		ine Bow	8.2	29.1#	7		書	9.3
0 -1	Cameron Pass*	Michigan Cr.		Cameron Pass	2-6N-76W	10300 Roc	Roosevelt	65.2 54.2 75.2	27.00	75.2	27.4		31.6
	SWEETWATER RIVER												
29	Grannier Meadows	Rock Greek	Wyo.	20mi.SW.Lander	19-30N-100W	9000 Was	Washakie	1	46.6	7,082	1	16.1	10.1
	LARAMIE RIVER							The Section of the Control of the Co					
211	Brooklyn Lake Fox Park	Nash Fork Fox Greek	Wyo.	7ni.NW.Cntennial	11-16N-79W	10200 Med	Medicine Bow	58.0 56.8 56.5 3	89.5	200	00	23.5	21.5
36	Hairpin Turn No.2	Nash Fork	==	5mi.NW. Cntennial	24-16N-79W	9500	= :	30.6	24.04	27.00	きた。		18.
いが	Pole Mountain No.2	Soldier Cr.	: =	10mi.SE.Laranie	25-15N-72W	8700	= =	*500	2.	200	***	光。光	2.0
7 0	W.Port. GP. Tunnel	Leranie R.	Colo.		7-8N-75W		Roosevelt	7.	13.00	25.1	1.9		8.7
R L	Deadman Hill No.2*	Deadman Cr.	:=	Sni.SW.R.Feather	MC/-N6-9	10200			0.0	18.00	11	14.0	16.7
	SOUTH PLATTE RIVER												
77	Hoosier Pass	S. Platte	Colo.	Hoosier Pass	13-88-787	11400 Pike		28.9	7.6 7	78.3	12.4		11.2
57	Jeiferson Greek Fairplay	Jefferson Cr. S. Platte	= =	4ni.NW.Jefferson Fairplay		100000			000	1	0.0	000	0.0
	CROW CREEK												
34	Pole Mountain No.2 Crow Creek	Grow Creek	Myo.	10mi.SE.Laranie	35-151-72W	8700 Med	Medicine Bow	#0.0	1	5.3	書。0	1	1.9



#### MISSOURI AND ARKANSAS RIVERS

Summary of Federal and State Cooperative Snow Surveys
Bureau of Agricultural Engineering, U. S. Dept. Agr.; Forest Service; Colorado Agri. Expt. Station

May 1 Snow Course Measurements	Av. Snow Depth Av. Water Content	1936 1937 1938 1926   1937   1938	In. In. In.	0.00	L 1 1 1		20.8		5.5 9.4 12.8		0.0 0.0		
Cours	now Depth Av	1937   1938   19	In. In.	65°2 54°2 75°2 27°4 12°2 2°1 17°5 5°7	13.0 18.0 18.0 18.0 18.0 18.0 18.0 18.0 18		75.2		24-3N-74M 10000 Ry.Mtn.N.P. 39.8 28.5 36.9 16.5		0.0 0.0 1.5 0		
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1938. Colo. Expt. Station, Location	H			2mi.E.Chambers I 33-8M-75W 6mi.W.Chambers I 2-6M-76W Chambers L.	10mi.W.R.Feather 26-103-75#10200 8mi.SW.R.Feather 6-9N-74W 10200 2mi.N.T.Pingree F18-7N-73W 9500 1mi.SW.Milner P. R.SN-75W 10600		12mi.N.Estes P. 1mi.SW.Milner P.		Smi.W.Allens P.	1	East Portal		
N 10, 1	State			Colo.	====		==		E		<b>z</b> =		
Issued May 10, 1938.	Drainage			Poudre R. Joe Wright Cr. Poudre R.	N. Poudre R. N. Poudre R. Little S. Poudre		Fall River Big Thompson R.		N.St.Vrain		S.Boulder Cr.		
Main Drainage		urse	POUDRE RIVER	Big South Cameron Pass Chembers Lake	Deadman Hill Deadman Hill #2 Hour Glass Lake	Z	Fall River Lake Irene*	ST. VRAIN RIVER	Wild Basin	BOULDER CREEK	E.Port. Moffat T. S. Boulder Cr. University Camp #2N. Boulder Cr.	CLEAR CREEK	
		No		MHW	34.20		65		4		602		



Bureau of Agricultural Engineering, U. S. Dept. Agr.; Forest Service; Colo. Agri. Expt. Station Issued May 10, 1938, Colo. Expt. Station, Fort Collins, Colo. Surnary of Federal and State Cooperative Snow Surveys

2000111 Av. Snow Depth Av. Water Content 1936 1937 1938 1936 1937 1938 May 1 Snow Course Measurements するようの 0.0# 2.7# 1.0 0.0 20.3 21.1 5.9 8 8 9.2 3.1 22.0 16.8 36.5 32.7 0.0 10200 Maxwell Grant ---Gr 30-31S-69W 10000 San Isabel 23-11S-81W 9700 Cochetan 9300 San Cristo 10800 Cochetopa Elev. National 11300 Arapaho 10500 10200 10500 31-3211-69TI 22-28S-70W 22-115-82W 百9-184-17 19-48N-7E 21-8S-SOW 7-88-79W Descrip tion Zni.SW.Twin Lakes 9ni.W.Twin Lakes Whiskey Cr. Pass 15mi.SW.LaVeta Tennessee Pass Location Marshall Pass Marshall Pass Locality Frenont Pass LaVeta Pass State Colos E.Fork Ark.R. Tennessee Cr. Cuchara Cr. Cuchara Cr. Whiskey Cr. Poncha Cr. Poncha Cr. Lake Cr. Lake Cr. Drainage Local LaVeta Pass #2\* Marshall Creek\* Twin Lakes Tun. Four Mile Park Tennessee Pass Whiskey Creek ARKANSAS RIVER Frenont Passa Main Drainage Poncha Creek Snow Course Blue Lakes and なれば

#Readings on original course \*On adjacent drainage

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Reservoir Storage in Acre-feet, Colorado and Wyoming, as of May 1, for the Years 1929 to 1938, inclusive (Based on data gathered by the State Engineer of Colorado and the U. S. Bureau of Reclamation) A = Percentage of capacity. B = Percentage of 10-year average. Units in thousands of acre-feet.

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A	162	474	180	72	221	はな	200	58	10	10	00	170	200	3~	72	さ	70	力	745	25	2	33	25	4078
10-yr	Ac-ft	15.9	15.00	200	39.7	33.4	18.0	16.5	12.1	8.4	4.2	10.0	0 M	m 00	3.4	1-4	1000	8	1.4	ma 1-0			47.8	
1938	19	7 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	16.7	277	30.7	32.2	1.6	38.0	7.5	0	000	200	11,00	100	3.9	3.1	11.0	5.77	1,-1	44	1	352.8	1430.6	
1937	Ac-ft	1.6.4	16.7	3.5	47.0	33.4	19.5	64.3	14.0	3.0*	٠- و،	-1-1	15.00	100	3.0	7.5	10.5	1.	4.1	たったった			504.2	
1936	Ac-ft	4.8	74.	7.4	はない	31.2	12.0	56.8	14.5	0	000	000	13.4	3.0	3.0	5.0	11.7.7	1 80	4.2	0,00		263.5	331.5	
1935	Ac-ft	18.7	13.8	1 00	12.7	31.7	7.4	30.1	13.8	0	000		200	2.0	↑°0	0.0	00 00 00 00	6	4.1	000	}		206.0	
1934	Ac-ft	43.4	17.1	10.5	12/2/	33.4	23.5	0000	9	0.0	000	200	000	70	2.2	7.	200	11.2	†•†	0.0			37.6	
1933	Ac-ft	1 %	14.6	1 1 1 1	12000	33.2	20.00	29.4	300	0	40		72	00.0	3.1	9.0	4 rc	0.1	4.1	70			63.8	
1932	Ac-ft	148.0	13.1	アンナント	41.8	33.5	27.8	25.50	200	in in	000	24	77	0 100	3.0	3.0	77	4.3	7.0	00			50.1	Fee
1931	Ac-ft				274.8																	613.	450.4	610 Acr
1930	Ac-ft	1.67	100	1001	200,47	がなって	27.0	500	200	25.3	10.07	0.6	17	11.0	5.0	000	70.0	11.6	1-1	90		0.906	572.7	54
1929	Ac-ft	66.8	175	200	15. K	34.50	27.9	200	18.7	27.7	200	100	17	7	4.3	100	200	11.6	5.8	000		815.6	19.4	pacity
Capacity	Ac-ft	81.9	1100	いたい	57.5	35.4	32.8	65.0	57.9	日。	5.69	17.8	118	14.3	5.4	120.7	10.0	11.6	80.	00		1070.0	71.6	**Based on Capacity of
Reservoir	COLORADO	Eleven Mile Cheeseman	Marston	Milton	Riverside	Jackson Lake	Prewitt	Point of Rocks	Twin Lakes	Meredith	Horse Creek	Model	Standley	Loveland	Mariano	Union	Cache La Poudre		Terry	Halligan Chambers Lake		Pathfinder	Guernsey Jackson Lake	

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